EXCELCHEMEnvironmental Labs

1135 W Sunset Boulevard Suite A Rocklin, CA 95765 Phone# 916-543-4445 Fax# 916-543-4449



ELAP Certificate No.: 2119

10 August 2012

Calvin Yang

RWQC Central Valley

11020 Sun Center Dr. #200

Rancho Cordova, CA 95670

RE: MUN Evaluation

Work order number: 1207335

Enclosed are the results of analyses for samples received by the laboratory on 07/26/12 15:50. All Quality Control results are within acceptable limits except where noted as a case narrative. If you have any questions concerning this report, please feel free to contact the laboratory.

Sincerely,

John Somers, Lab Director

RWQC Central Valley Project: MUN Evaluation
11020 Sun Center Dr. #200 Project Number: 10-026-150-0
Rancho Cordova, CA 95670 Project Manager: Calvin Yang

Date Reported: 08/10/12 16:36

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
CCY120724-10	1207335-01	Water	07/24/12 08:00	07/26/12 15:50
CCY120724-11	1207335-02	Water	07/24/12 08:00	07/26/12 15:50
CCY120724-12	1207335-03	Water	07/24/12 08:00	07/26/12 15:50
CCY120724-13	1207335-04	Water	07/24/12 08:00	07/26/12 15:50
CCY120724-14	1207335-05	Water	07/24/12 08:00	07/26/12 15:50
CCY120724-15	1207335-06	Water	07/24/12 08:00	07/26/12 15:50
CCY120724-16	1207335-07	Water	07/24/12 08:00	07/26/12 15:50
CCY120724-17	1207335-08	Water	07/24/12 08:00	07/26/12 15:50
CCY120724-18	1207335-09	Water	07/24/12 08:00	07/26/12 15:50
CCY120724-04	1207335-10	Water	07/24/12 08:00	07/26/12 15:50
CCY120724-05	1207335-11	Water	07/24/12 08:00	07/26/12 15:50
CCY120724-20	1207335-12	Water	07/24/12 08:00	07/26/12 15:50
CCY120724-21	1207335-13	Water	07/24/12 08:00	07/26/12 15:50
CCY120724-22	1207335-14	Water	07/24/12 08:00	07/26/12 15:50
CCY120724-23	1207335-15	Water	07/24/12 08:00	07/26/12 15:50
CCY120724-24	1207335-16	Water	07/24/12 08:00	07/26/12 15:50
CCY120724-25	1207335-17	Water	07/24/12 08:00	07/26/12 15:50
CCY120724-26	1207335-18	Water	07/24/12 08:00	07/26/12 15:50
CCY120724-27	1207335-19	Water	07/24/12 08:00	07/26/12 15:50

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RWQC Central Valley 11020 Sun Center Dr. #200 Rancho Cordova, CA 95670

MUN Evaluation Project: Project Number: Project Manager:

10-026-150-0 Calvin Yang

Date Reported: 08/10/12 16:36

CCY120724-10 1207335-01 (Water)

Analyte	Result	Reporting Limit	MDL	Units	DF	Batch	Date Prepared	Date Analyzed	Method	Notes
Wet Chemistry										
Total Hardness	170	1.0	1.0	N/A	0	AVH0017	08/02/12	08/02/12	CALC	
Total Recoverable Metals										
Aluminum	1340	50.0	24.5	ug/l	1	AVH0003	07/31/12	08/01/12	EPA 200.7	
Arsenic	2.8	10.0	1.0	"	1	"	"	"	"	J
Boron	208	50.0	0.8	"	1	"	"	"	"	
Calcium	30800	100	79.0	"	1	"	"	"	"	
Iron	1600	20.0	11.5	"	1	"	"	"	"	
Magnesium	21700	50.0	15.6	"	1	"	"	"	"	
Manganese	180	10.0	0.6	"	1	"	"	"	"	
Sodium	41600	200	120	"	1	"	"	"	"	

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RWQC Central Valley 11020 Sun Center Dr. #200 Rancho Cordova, CA 95670 Project: MUN Evaluation
Project Number: 10-026-150-0
Project Manager: Calvin Yang

Date Reported: 08/10/12 16:36

CCY120724-11 1207335-02 (Water)

Analyte	Result	Reporting Limit	MDL	Units	DF	Batch	Date Prepared	Date Analyzed	Method	Notes
Wet Chemistry										
Total Hardness	260	1.0	1.0	N/A	0	AVH0017	08/02/12	08/02/12	CALC	
Total Recoverable Metals										
Aluminum	204	50.0	24.5	ug/l	1	AVH0003	07/31/12	08/01/12	EPA 200.7	
Arsenic	8.1	10.0	1.0	"	1	"	"	"	"	J
Boron	399	50.0	0.8	"	1	"	"	"	"	
Calcium	45800	100	79.0	n .	1	"	"	"	"	
Iron	386	20.0	11.5	"	1	"	"	"	"	
Magnesium	35300	50.0	15.6	"	1	"	"	"	"	
Manganese	241	10.0	0.6	"	1	"	"	"	"	
Sodium	97600	200	120	"	1	"	"	"	"	

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RWQC Central Valley 11020 Sun Center Dr. #200 Rancho Cordova, CA 95670 Project: MUN Evaluation
Project Number: 10-026-150-0
Project Manager: Calvin Yang

Date Reported: 08/10/12 16:36

CCY120724-12 1207335-03 (Water)

Analyte	Result	Reporting Limit	MDL	Units	DF	Batch	Date Prepared	Date Analyzed	Method	Notes
Wet Chemistry										
Total Hardness	77	1.0	1.0	N/A	0	AVH0017	08/02/12	08/02/12	CALC	
Total Recoverable Metals										
Aluminum	ND	50.0	24.5	ug/l	1	AVH0003	07/31/12	08/01/12	EPA 200.7	
Arsenic	ND	10.0	1.0	"	1	"	"	"	"	
Boron	368	50.0	0.8	"	1	"	"	"	"	
Calcium	14400	100	79.0	"	1	"	"	"	"	
Iron	ND	20.0	11.5	"	1	"	"	"	"	
Magnesium	10100	50.0	15.6	"	1	"	"	"	"	
Manganese	0.6	10.0	0.6	"	1	"	"	"	"	J
Sodium	146000	200	120	"	1	"	"	"	"	

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Project Number: 10-026-150-0
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Date Reported: 08/10/12 16:36

CCY120724-13 1207335-04 (Water)

Analyte	Result	Reporting Limit	MDL	Units	DF	Batch	Date Prepared	Date Analyzed	Method	Notes
Wat Chamistur										
Wet Chemistry Total Hardness	410	1.0	1.0	N/A	0	AVH0017	08/02/12	08/02/12	CALC	
Total Recoverable Metals										
Aluminum	3110	50.0	24.5	ug/l	1	AVH0003	07/31/12	08/01/12	EPA 200.7	
Arsenic	13.1	10.0	1.0	"	1	"	"	"	"	
Boron	974	50.0	0.8	"	1	"	"	"	"	
Calcium	71500	100	79.0	"	1	"	"	"	"	
Iron	2660	20.0	11.5	"	1	"	"	"	"	
Magnesium	55700	50.0	15.6	"	1	"	"	"	"	
Manganese	471	10.0	0.6	"	1	"	"	"	"	

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Date Reported: 08/10/12 16:36

CCY120724-13 1207335-04RE1 (Water)

Analyte	Result	Reporting Limit	MDL	Units	DF	Batch	Date Prepared	Date Analyzed	Method	Notes
Total Recoverable Metals										
Sodium	269000	2000	1200	ug/l	10	AVH0003	07/31/12	08/01/12	EPA 200.7	

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Project Number: 10-026-150-0
Project Manager: Calvin Yang

Date Reported: 08/10/12 16:36

CCY120724-14 1207335-05 (Water)

Analyte	Result	Reporting Limit	MDL	Units	DF	Batch	Date Prepared	Date Analyzed	Method	Notes
Wet Chemistry										
Total Hardness	280	1.0	1.0	N/A	0	AVH0017	08/02/12	08/02/12	CALC	
Total Recoverable Metals										
Aluminum	298	50.0	24.5	ug/l	1	AVH0003	07/31/12	08/01/12	EPA 200.7	
Arsenic	14.0	10.0	1.0	"	1	"	"	"	"	
Boron	505	50.0	0.8	"	1	"	"	"	"	
Calcium	48400	100	79.0	"	1	"	"	"	"	
Iron	483	20.0	11.5	"	1	"	"	"	"	
Magnesium	38800	50.0	15.6	"	1	"	"	"	"	
Manganese	154	10.0	0.6	"	1	"	"	"	"	
Sodium	134000	200	120	"	1	"	"	"	"	

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Project Number: 10-026-150-0
Project Manager: Calvin Yang

Date Reported: 08/10/12 16:36

CCY120724-15 1207335-06 (Water)

Analyte	Result	Reporting Limit	MDL	Units	DF	Batch	Date Prepared	Date Analyzed	Method	Notes
Wet Chemistry										
Total Hardness	230	1.0	1.0	N/A	0	AVH0017	08/02/12	08/02/12	CALC	
Total Recoverable Metals										
Aluminum	188	50.0	24.5	ug/l	1	AVH0003	07/31/12	08/01/12	EPA 200.7	
Arsenic	9.4	10.0	1.0	"	1	"	"	"	"	J
Boron	518	50.0	0.8	"	1	"	"	"	"	
Calcium	39400	100	79.0	"	1	"	"	"	"	
Iron	257	20.0	11.5	"	1	"	"	"	"	
Magnesium	31700	50.0	15.6	"	1	"	"	"	"	
Manganese	133	10.0	0.6	"	1	"	"	"	"	
Sodium	152000	200	120	"	1	"	"	"	"	

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Project:
Project Number:
Project Manager:

MUN Evaluation 10-026-150-0 Calvin Yang

Date Reported: 08/10/12 16:36

CCY120724-16 1207335-07 (Water)

Analyte	Result	Reporting Limit	MDL	Units	DF	Batch	Date Prepared	Date Analyzed	Method	Notes
Wet Chemistry										
Total Hardness	260	1.0	1.0	N/A	0	AVH0017	08/02/12	08/02/12	CALC	
Total Recoverable Metals										
Aluminum	357	50.0	24.5	ug/l	1	AVH0003	07/31/12	08/01/12	EPA 200.7	
Arsenic	7.3	10.0	1.0	"	1	"	"	"	"	J
Boron	410	50.0	0.8	"	1	"	"	"	"	
Calcium	45600	100	79.0	"	1	"	"	"	"	
Iron	565	20.0	11.5	"	1	"	"	"	"	
Magnesium	35200	50.0	15.6	"	1	"	"	"	"	
Manganese	286	10.0	0.6	"	1	"	"	"	"	
Sodium	95600	200	120	"	1	"	"	"	"	

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Project: MUN Evaluation Project Number: Project Manager:

10-026-150-0 Calvin Yang

Date Reported: 08/10/12 16:36

CCY120724-17 1207335-08 (Water)

Analyte	Result	Reporting Limit	MDL	Units	DF	Batch	Date Prepared	Date Analyzed	Method	Notes
Wet Chemistry										
Total Hardness	260	1.0	1.0	N/A	0	AVH0017	08/02/12	08/02/12	CALC	
Total Recoverable Metals										
Aluminum	363	50.0	24.5	ug/l	1	AVH0003	07/31/12	08/01/12	EPA 200.7	
Arsenic	6.9	10.0	1.0	"	1	"	"	"	"	J
Boron	431	50.0	0.8	"	1	"	"	"	"	
Calcium	45500	100	79.0	"	1	"	"	"	"	
Iron	576	20.0	11.5	"	1	"	"	"	"	
Magnesium	35600	50.0	15.6	"	1	"	"	"	"	
Manganese	259	10.0	0.6	"	1	"	"	"	"	
Sodium	105000	200	120	"	1	"	"	"	"	

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Project Number: 10-026-150-0
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Date Reported: 08/10/12 16:36

CCY120724-18 1207335-09 (Water)

Analyte	Result	Reporting Limit	MDL	Units	DF	Batch	Date Prepared	Date Analyzed	Method	Notes
Wet Chemistry										
Total Hardness	180	1.0	1.0	N/A	0	AVH0017	08/02/12	08/02/12	CALC	
Total Recoverable Metals										
Aluminum	453	50.0	24.5	ug/l	1	AVH0003	07/31/12	08/01/12	EPA 200.7	
Arsenic	2.3	10.0	1.0	"	1	"	"	"	"	J
Boron	256	50.0	0.8	"	1	"	"	"	"	
Calcium	32800	100	79.0	"	1	"	"	"	"	
Iron	745	20.0	11.5	"	1	"	"	"	"	
Magnesium	23100	50.0	15.6	"	1	"	"	"	"	
Manganese	146	10.0	0.6	"	1	"	"	"	"	
Sodium	52900	200	120	"	1	"	"	"	"	

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RWQC Central Valley 11020 Sun Center Dr. #200 Rancho Cordova, CA 95670

Project:
Project Number:
Project Manager:

MUN Evaluation 10-026-150-0 Calvin Yang

Date Reported: 08/10/12 16:36

CCY120724-04 1207335-10 (Water)

Analyte	Result	Reporting Limit	MDL	Units	DF	Batch	Date Prepared	Date Analyzed	Method	Notes
Wet Chemistry										
Total Hardness	160	1.0	1.0	N/A	0	AVH0017	08/02/12	08/02/12	CALC	
Total Recoverable Metals										
Aluminum	453	50.0	24.5	ug/l	1	AVH0003	07/31/12	08/01/12	EPA 200.7	
Arsenic	1.2	10.0	1.0	"	1	"	"	"	"	J
Boron	206	50.0	0.8	"	1	"	"	"	"	
Calcium	30600	100	79.0	"	1	"	"	"	"	
Iron	805	20.0	11.5	"	1	"	"	"	"	
Magnesium	21100	50.0	15.6	"	1	"	"	"	"	
Manganese	166	10.0	0.6	"	1	"	"	"	"	
Sodium	40800	200	120	"	1	"	"	"	"	

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Date Reported: 08/10/12 16:36

CCY120724-05 1207335-11 (Water)

Analyte	Result	Reporting Limit	MDL	Units	DF	Batch	Date Prepared	Date Analyzed	Method	Notes
Wet Chemistry										
Total Hardness	ND	1.0	1.0	N/A	0	AVH0053	08/06/12	08/06/12	CALC	
Total Recoverable Metals										
Aluminum	ND	50.0	24.5	ug/l	1	AVH0018	08/02/12	08/03/12	EPA 200.7	
Arsenic	ND	10.0	1.0	"	1	"	"	"	"	
Boron	0.9	50.0	0.8	"	1	"	"	"	"	J
Calcium	ND	100	79.0	"	1	"	"	"	"	
Iron	ND	20.0	11.5	"	1	"	"	"	"	
Magnesium	ND	50.0	15.6	"	1	"	"	"	"	
Manganese	ND	10.0	0.6	"	1	"	"	"	"	
Sodium	ND	200	120	"	1	"	"	"	"	

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RWQC Central Valley 11020 Sun Center Dr. #200 Rancho Cordova, CA 95670

Project: MUN Evaluation Project Number: Project Manager:

10-026-150-0 Calvin Yang

Date Reported: 08/10/12 16:36

CCY120724-20 1207335-12 (Water)

Analyte	Result	Reporting Limit	MDL	Units	DF	Batch	Date Prepared	Date Analyzed	Method	Notes
Wet Chemistry										
Total Hardness	200	1.0	1.0	N/A	0	AVH0053	08/06/12	08/06/12	CALC	
Total Recoverable Metals										
Aluminum	47.6	50.0	24.5	ug/l	1	AVH0018	08/02/12	08/03/12	EPA 200.7	J
Arsenic	1.6	10.0	1.0	"	1	"	"	"	"	J
Boron	254	50.0	0.8	"	1	"	"	"	"	
Calcium	33700	100	79.0	"	1	"	"	"	"	
Iron	ND	20.0	11.5	"	1	"	"	"	"	
Magnesium	27500	50.0	15.6	"	1	"	"	"	"	
Manganese	1.4	10.0	0.6	"	1	"	"	"	"	J
Sodium	98900	200	120	"	1	"	"	"	"	

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MUN Evaluation Project: Project Number: Project Manager:

10-026-150-0 Calvin Yang

Date Reported: 08/10/12 16:36

CCY120724-21 1207335-13 (Water)

Analyte	Result	Reporting Limit	MDL	Units	DF	Batch	Date Prepared	Date Analyzed	Method	Notes
Wet Chemistry										
Total Hardness	140	1.0	1.0	N/A	0	AVH0053	08/06/12	08/06/12	CALC	
Total Recoverable Metals										
Aluminum	773	50.0	24.5	ug/l	1	AVH0018	08/02/12	08/03/12	EPA 200.7	
Arsenic	1.3	10.0	1.0	"	1	"	"	"	"	J
Boron	172	50.0	0.8	"	1	"	"	"	"	
Calcium	22800	100	79.0	"	1	"	"	"	"	
Iron	1340	20.0	11.5	"	1	"	"	"	"	
Magnesium	20000	50.0	15.6	"	1	"	"	"	"	
Manganese	117	10.0	0.6	"	1	"	"	"	"	
Sodium	34600	200	120	"	1	"	"	"	"	

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CCY120724-22 1207335-14 (Water)

Analyte	Result	Reporting Limit	MDL	Units	DF	Batch	Date Prepared	Date Analyzed	Method	Notes
Wet Chemistry										
Total Hardness	140	1.0	1.0	N/A	0	AVH0053	08/06/12	08/06/12	CALC	
Total Recoverable Metals										
Aluminum	353	50.0	24.5	ug/l	1	AVH0018	08/02/12	08/03/12	EPA 200.7	
Arsenic	1.0	10.0	1.0	"	1	"	"	"	"	J
Boron	177	50.0	0.8	"	1	"	"	"	"	
Calcium	23000	100	79.0	"	1	"	"	"	"	
Iron	857	20.0	11.5	"	1	"	"	"	"	
Magnesium	20000	50.0	15.6	"	1	"	"	"	"	
Manganese	102	10.0	0.6	"	1	"	"	"	"	
Sodium	39600	200	120	"	1	"	"	"	"	

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Date Reported: 08/10/12 16:36

CCY120724-23 1207335-15 (Water)

Analyte	Result	Reporting Limit	MDL	Units	DF	Batch	Date Prepared	Date Analyzed	Method	Notes
Wet Chemistry										
Total Hardness	130	1.0	1.0	N/A	0	AVH0053	08/06/12	08/06/12	CALC	
Total Recoverable Metals										
Aluminum	259	50.0	24.5	ug/l	1	AVH0018	08/02/12	08/03/12	EPA 200.7	
Arsenic	3.1	10.0	1.0	"	1	"	"	"	"	J
Boron	237	50.0	0.8	"	1	"	"	"	"	
Calcium	20600	100	79.0	"	1	"	"	"	"	
Iron	1190	20.0	11.5	"	1	"	"	"	"	
Magnesium	19600	50.0	15.6	"	1	"	"	"	"	
Manganese	304	10.0	0.6	"	1	"	"	"	"	
Sodium	38500	200	120	"	1	"	"	"	"	

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RWQC Central Valley 11020 Sun Center Dr. #200 Rancho Cordova, CA 95670

Project: MUN Evaluation Project Number: Project Manager:

10-026-150-0 Calvin Yang

Date Reported: 08/10/12 16:36

CCY120724-24 1207335-16 (Water)

Analyte	Result	Reporting Limit	MDL	Units	DF	Batch	Date Prepared	Date Analyzed	Method	Notes
Wet Chemistry										
Total Hardness	160	1.0	1.0	N/A	0	AVH0053	08/06/12	08/06/12	CALC	
Total Recoverable Metals										
Aluminum	250	50.0	24.5	ug/l	1	AVH0018	08/02/12	08/03/12	EPA 200.7	
Arsenic	3.2	10.0	1.0	"	1	"	"	"	"	J
Boron	105	50.0	0.8	"	1	"	"	"	"	
Calcium	28000	100	79.0	"	1	"	"	"	"	
Iron	545	20.0	11.5	"	1	"	"	"	"	
Magnesium	21400	50.0	15.6	"	1	"	"	"	"	
Manganese	118	10.0	0.6	"	1	"	"	"	"	
Sodium	15700	200	120	"	1	"	"	"	"	

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MUN Evaluation

RWQC Central Valley 11020 Sun Center Dr. #200 Rancho Cordova, CA 95670

Project:
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 10-026-150-0
 Date Reported:

 Calvin Yang
 08/10/12 16:36

CCY120724-25 1207335-17 (Water)

Analyte	Result	Reporting Limit	MDL	Units	DF	Batch	Date Prepared	Date Analyzed	Method	Notes
Wet Chemistry										
Total Hardness	210	1.0	1.0	N/A	0	AVH0053	08/06/12	08/06/12	CALC	
Total Recoverable Metals										
Aluminum	462	50.0	24.5	ug/l	1	AVH0018	08/02/12	08/03/12	EPA 200.7	
Arsenic	3.4	10.0	1.0	"	1	"	"	"	"	J
Boron	144	50.0	0.8	"	1	"	"	"	"	
Calcium	34300	100	79.0	"	1	"	"	"	"	
Iron	1370	20.0	11.5	"	1	"	"	"	"	
Magnesium	29200	50.0	15.6	"	1	"	"	"	"	
Manganese	446	10.0	0.6	"	1	"	"	"	"	
Sodium	17900	200	120	"	1	"	"	"	"	

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RWQC Central Valley 11020 Sun Center Dr. #200 Rancho Cordova, CA 95670 Project: MUN Evaluation
Project Number: 10-026-150-0
Project Manager: Calvin Yang

Date Reported: 08/10/12 16:36

CCY120724-26 1207335-18 (Water)

Analyte	Result	Reporting Limit	MDL	Units	DF	Batch	Date Prepared	Date Analyzed	Method	Notes
Wet Chemistry										
Total Hardness	120	1.0	1.0	N/A	0	AVH0053	08/06/12	08/06/12	CALC	
Total Recoverable Metals										
Aluminum	229	50.0	24.5	ug/l	1	AVH0018	08/02/12	08/03/12	EPA 200.7	
Arsenic	2.8	10.0	1.0	"	1	"	"	"	"	J
Boron	214	50.0	0.8	"	1	"	"	"	"	
Calcium	20000	100	79.0	"	1	"	"	"	"	
Iron	614	20.0	11.5	"	1	"	"	"	"	
Magnesium	16100	50.0	15.6	"	1	"	"	"	"	
Manganese	82.7	10.0	0.6	"	1	"	"	"	"	
Sodium	35600	200	120	"	1	"	"	"	"	

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RWQC Central Valley 11020 Sun Center Dr. #200 Rancho Cordova, CA 95670 Project: MUN Evaluation
Project Number: 10-026-150-0
Project Manager: Calvin Yang

Date Reported: 08/10/12 16:36

CCY120724-27 1207335-19 (Water)

Analyte	Result	Reporting Limit	MDL	Units	DF	Batch	Date Prepared	Date Analyzed	Method	Notes
Wet Chemistry										
Total Hardness	110	1.0	1.0	N/A	0	AVH0053	08/06/12	08/06/12	CALC	
Total Recoverable Metals										
Aluminum	276	50.0	24.5	ug/l	1	AVH0018	08/02/12	08/03/12	EPA 200.7	
Arsenic	1.3	10.0	1.0	"	1	"	"	"	"	J
Boron	146	50.0	0.8	"	1	"	"	"	"	
Calcium	22200	100	79.0	n .	1	"	"	"	"	
Iron	644	20.0	11.5	"	1	"	"	"	"	
Magnesium	12500	50.0	15.6	"	1	"	"	"	"	
Manganese	71.6	10.0	0.6	"	1	"	"	"	"	
Sodium	30800	200	120	"	1	"	"	"	"	

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RWQC Central Valley Project: MUN Evaluation
11020 Sun Center Dr. #200 Project Number: 10-026-150-0 Date Reported:
Rancho Cordova, CA 95670 Project Manager: Calvin Yang 08/10/12 16:36

Total Recoverable Metals - Quality Control

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch AVH0003 - EPA 200.7											
Blank (AVH0003-BLK1)					Prepared: 07	7/31/12 An	alyzed: 08/	01/12			
Aluminum	ND	50.0	24.5	ug/l							
Boron	ND	50.0	0.8	"							
Arsenic	ND	10.0	1.0	"							
Calcium	ND	100	79.0	"							
Iron	ND	20.0	11.5	"							
Magnesium	ND	50.0	15.6	"							
Manganese	ND	10.0	0.6	"							
Sodium	ND	200	120	"							
LCS (AVH0003-BS1)					Prepared: 07	7/31/12 An	alyzed: 08/	01/12			
Aluminum	987	50.0	24.5	ug/l	1000		98.7	85-115			
Boron	947	50.0	0.8	"	1000		94.7	85-115			
Arsenic	970	10.0	1.0	"	1000		97.0	85-115			
Calcium	997	100	79.0	"	1000		99.7	85-115			
Iron	1020	20.0	11.5	"	1000		102	85-115			
Magnesium	991	50.0	15.6	"	1000		99.1	85-115			
Manganese	989	10.0	0.6	"	1000		98.9	85-115			
Sodium	987	200	120	"	1000		98.7	85-115			
LCS Dup (AVH0003-BSD1)					Prepared: 07	7/31/12 An	alyzed: 08/	01/12			
Aluminum	1020	50.0	24.5	ug/l	1000		102	85-115	2.87	20	
Boron	1020	50.0	0.8	"	1000		102	85-115	7.79	20	
Arsenic	968	10.0	1.0	"	1000		96.8	85-115	0.196	20	
Calcium	988	100	79.0	"	1000		98.8	85-115	0.927	20	
Iron	1020	20.0	11.5	"	1000		102	85-115	0.00	20	
Magnesium	986	50.0	15.6	"	1000		98.6	85-115	0.445	20	
Manganese	975	10.0	0.6	"	1000		97.5	85-115	1.41	20	
Sodium	1000	200	120	"	1000		100	85-115	1.84	20	

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RWQC Central ValleyProject:MUN Evaluation11020 Sun Center Dr. #200Project Number:10-026-150-0Date Reported:Rancho Cordova, CA 95670Project Manager:Calvin Yang08/10/12 16:36

Total Recoverable Metals - Quality Control

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch AVH0003 - EPA 200.7											
Matrix Spike (AVH0003-MS1)		Sour	ce: 1207335	-10	Prepared: 0	7/31/12 An	alyzed: 08/	01/12			
Aluminum	1500	50.0	24.5	ug/l	1000	453	105	75-125			
Boron	1190	50.0	0.8	"	1000	206	98.0	75-125			
Arsenic	997	10.0	1.0	"	1000	1.20	99.6	75-125			
Calcium	32000	100	79.0	"	1000	30600	145	75-125			QL-0
Iron	1890	20.0	11.5	"	1000	805	108	75-125			
Magnesium	22600	50.0	15.6	"	1000	21100	145	75-125			QL-0
Manganese	1140	10.0	0.6	"	1000	166	97.4	75-125			
Sodium	43000	200	120	"	1000	40800	215	75-125			QL-0
Matrix Spike Dup (AVH0003-MS	D1)	Sour	rce: 1207335	-10	Prepared: 0'	7/31/12 An	alyzed: 08/	01/12			
Aluminum	1590	50.0	24.5	ug/l	1000	453	114	75-125	5.43	25	
Boron	1180	50.0	0.8	"	1000	206	97.7	75-125	0.253	25	
Arsenic	1000	10.0	1.0	"	1000	1.20	100	75-125	0.380	25	
Calcium	32100	100	79.0	"	1000	30600	151	75-125	0.187	25	QL-0
Iron	1990	20.0	11.5	"	1000	805	119	75-125	5.57	25	
Magnesium	22700	50.0	15.6	"	1000	21100	153	75-125	0.354	25	QL-0
Manganese	1140	10.0	0.6	"	1000	166	97.6	75-125	0.175	25	
Sodium	43100	200	120	"	1000	40800	221	75-125	0.139	25	QL-0
Batch AVH0018 - EPA 200.7											
Blank (AVH0018-BLK1)					Prepared: 0	8/02/12 An	alyzed: 08/	03/12			
Aluminum	41.6	50.0	24.5	ug/l			-				
Boron	1.20	50.0	0.8	"							
Arsenic	ND	10.0	1.0	"							
Calcium	ND	100	79.0	"							
Iron	ND	20.0	11.5	"							
Magnesium	ND	50.0	15.6	"							
Manganese	ND	10.0	0.6	"							
Sodium	ND	200	120	,,							

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RWQC Central ValleyProject:MUN Evaluation11020 Sun Center Dr. #200Project Number:10-026-150-0Date Reported:Rancho Cordova, CA 95670Project Manager:Calvin Yang08/10/12 16:36

Total Recoverable Metals - Quality Control

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch AVH0018 - EPA 200.7											
LCS (AVH0018-BS1)					Prepared: 08	8/02/12 An	alyzed: 08/0	03/12			
Boron	993	50.0	0.8	ug/l	1000		99.3	85-115			
Aluminum	908	50.0	24.5	"	1000		90.8	85-115			
Arsenic	967	10.0	1.0	"	1000		96.7	85-115			
Calcium	1080	100	79.0	"	1000		108	85-115			
Iron	1000	20.0	11.5	"	1000		100	85-115			
Magnesium	982	50.0	15.6	"	1000		98.2	85-115			
Manganese	1010	10.0	0.6	"	1000		101	85-115			
Sodium	1100	200	120	"	1000		110	85-115			
LCS Dup (AVH0018-BSD1)					Prepared: 08	3/02/12 An	alyzed: 08/0	03/12			
Boron	1000	50.0	0.8	ug/l	1000		100	85-115	0.662	20	
Aluminum	913	50.0	24.5	"	1000		91.3	85-115	0.549	20	
Arsenic	967	10.0	1.0	"	1000		96.7	85-115	0.0621	20	
Calcium	990	100	79.0	"	1000		99.0	85-115	8.52	20	
Iron	991	20.0	11.5	"	1000		99.1	85-115	0.844	20	
Magnesium	987	50.0	15.6	"	1000		98.7	85-115	0.498	20	
Manganese	1010	10.0	0.6	"	1000		101	85-115	0.297	20	
Sodium	1070	200	120	"	1000		107	85-115	3.04	20	
Matrix Spike (AVH0018-MS1)		Sour	ce: 1207335-	11	Prepared: 08	8/02/12 An	alyzed: 08/0	03/12			
Boron	993	50.0	0.8	ug/l	1000	0.900	99.2	75-125			
Aluminum	902	50.0	24.5	"	1000	ND	90.2	75-125			
Arsenic	964	10.0	1.0	"	1000	ND	96.4	75-125			
Calcium	1010	100	79.0	"	1000	ND	101	75-125			
Iron	987	20.0	11.5	"	1000	ND	98.7	75-125			
Magnesium	984	50.0	15.6	"	1000	ND	98.4	75-125			
Manganese	1000	10.0	0.6	"	1000	ND	100	75-125			
Sodium	1050	200	120	"	1000	ND	105	75-125			

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RWQC Central Valley Project: MUN Evaluation
11020 Sun Center Dr. #200 Project Number: 10-026-150-0 Date Reported:
Rancho Cordova, CA 95670 Project Manager: Calvin Yang 08/10/12 16:36

Total Recoverable Metals - Quality Control

		Paparting			Snilza	Source		%REC		RPD	
Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC	Limits	RPD	Limit	Notes

Batch AVH0018 - EPA 200.7

Matrix Spike Dup (AVH001	urce: 1207335-	-11	Prepared: 08/02/12 Analyzed: 08/03/12							
Aluminum	924	50.0	24.5	ug/l	1000	ND	92.4	75-125	2.45	25
Boron	996	50.0	0.8	"	1000	0.900	99.5	75-125	0.292	25
Arsenic	965	10.0	1.0	"	1000	ND	96.5	75-125	0.0933	25
Calcium	984	100	79.0	"	1000	ND	98.4	75-125	2.38	25
Iron	987	20.0	11.5	"	1000	ND	98.7	75-125	0.0203	25
Magnesium	982	50.0	15.6	"	1000	ND	98.2	75-125	0.224	25
Manganese	1010	10.0	0.6	"	1000	ND	101	75-125	0.596	25
Sodium	1000	200	120	"	1000	ND	100	75-125	5.30	25

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Notes and Definitions

QL-01 Sample results for the QC batch were accepted based on LCS/LCSD percent recoveries and RPD values.

J Detected but below the Reporting Limit; therefore, result is an estimated concentration (CLP J-Flag).

ND Analyte not detected at reporting limit.

NR Not reported

Analysis Method	Prep Method
EPA 8260, EPA 8021/8015M	EPA 5030B
EPA 8270, EPA 8081, EPA 8082, EPA 8141, EPA 8015M (extractable)	Water - EPA 3510C, Soil- EPA 3550B
Metals	Water- 3005A, Soil- 3050B
TCLP	EPA 1311
Not Specified	Same as Analysis Method

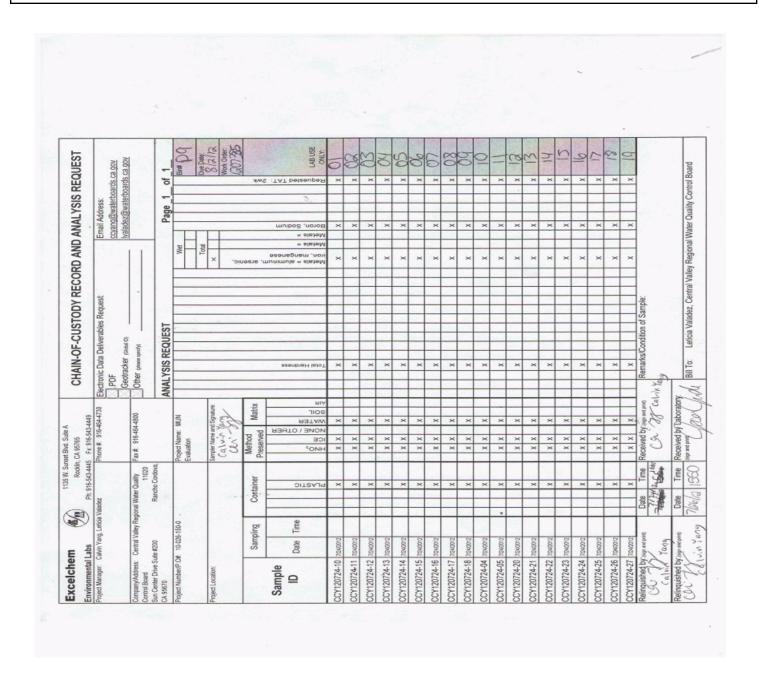
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RWQC Central Valley Project: MUN Evaluation
11020 Sun Center Dr. #200 Project Number: 10-026-150-0
Rancho Cordova, CA 95670 Project Manager: Calvin Yang

 10-026-150-0
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11020 Sun Center Dr. #200 Project Number: 10-026-150-0 Date Reported:
Rancho Cordova, CA 95670 Project Manager: Calvin Yang 08/10/12 16:36

Sample Integri	ity,	1		V	VORK	OF	RDE	R 1207335
Date Received:	7/26	112						
Section 1 - Sample A	rrival l	nfo.				8 77		
Sample Transport:	ONTR	AC	UPS USPS Walk-l	EXCEI	LCHEM	Courie	er Fe	d-Ex Other:
Transported In: (I	ce Che	st Bo	ox Hand					
Describe type of pa	cking n	nateria	ls: Bubble Wrap F	oam Pac	cking Pea	nuts	Pape	er Other:
Has chilling proces Temperature of S			16	les Receive				/ Ambient / On Ive
Section 2 – Bottle/An	alysis I	nfo.		Yes	No N	/A		Comments
Did all bottles arrive u	nbroker	and i	ntact?	X	NO N	-	XN	o labels, sample ID
Did all bottle labels ag)	<		rigger
Were correct container				X			X	Jo time on bothle
Were correct preservat				×				coc, using desi
Was a sufficient amou Were bubbles present in				×		-	- 1	m 0800
Cleaning Summa#: Regulator#: Was there any visual d	lamage	to sum	ma danislers or now res	gulators? Ex	oplain.			
Section 4 – COC Info						`		
Section 4 – COC IIIIo	Comp	oleted	Info From				pleted	
Was COC Received	Yes	No	Container Analysis Re	quested		Yes	No	Comments
Date Sampled	-		Samples arrive		ng time	X		
Time Sampled	2	×	Any hold tin			1	><	
Sample ID	X		Client Name			X		
Rush TAT	A 15-20-31	X	Address/Tel	ephone #		8	1 1 1	
0. 4			+					
Section 5 – Comment Was Client notified of	discrep				Noti	fied by	y:	
Explanations / Comme	M1							*
Explanations / Comme					^			
Samples Labeled by:	Jaso	0	the second secon					
Samples Labeled by:			Filled 0	son Jud	U			Date: 7/26/12
Samples Labeled by:	d by:	ason	Filled Q	son Jud	U	Season.		Date: 7/26/19 Time: 1550

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